Patent

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Canceled)

2. (Original) A method for resensitizing non P-gp/non MRP multiple drug resistant cancer

cells to treatment with chemotherapeutic agents to which cancer cells have developed

resistance comprising administration of an effective amount of a chemosensitizing reversal

agent and a chemotherapeutic agent.

3. (Original) The method according to claim 2 wherein the chemosensitizing reversal agent

is selected from the group consisting of fumitremorgin A, fumitremorgin B and

fumitremorgin C.

4. (Original) The method according to claim 2 wherein the chemotherapeutic agent used is

one to which the cancer cells are resistant.

5. (Original) The method according to claim 2 wherein the chemotherapeutic agent is

selected from the group consisting of mitoxantrone, doxorubicin and topotecan.

6. (Original) The method of claim 3 wherein the chemosensitizing reversal agent is

administered prior to, concurrently with, or after administration of the chemotherapeutic

agent.

7. (Canceled)

8. (Original) A method for resensitizing BCRP-mediated multiple drug resistant cancer cells

to treatment with chemotherapeutic agents to which cancer cells have developed resistance

comprising administration of an effective amount of a chemosensitizing reversal agent and a

chemotherapeutic agent.

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9. (Original) The method according to claim 8 wherein the chemotherapeutic agent used is one to which the cancer cells are resistant.

- 10. (Original) The method according to claim 9 wherein the chemotherapeutic agent is selected from the group consisting of mitoxantrone, doxorubicin, and topotecan.
- 11. (Original) The method according to claim 8 wherein the chemosensitizing reversal agent is selected from the group consisting of furnitremorgin A, furnitremorgin B and furnitremorgin C.
- 12. (Original) The method according to claim 11 wherein the chemosensitizing reversal agent is administered prior to, concurrently with, or after administration of the chemotherapeutic agent.

13-28. (Canceled)

- 29. (Original) A method of reversing BCRP or other non P-gp/non MRP resistance to chemotherapeutic agents in a mammal which comprises administration of an effective amount of a chemosensitizing reversal agent to a mammal in need thereof having a BCRP or other non-P-gp/non MRP resistant cancer.
- 30. (Original) The method according to claim 29 wherein the chemotherapeutic agent used is one to which the cancer cells are resistant.
- 31. (Original) The method according to claim 29 wherein the chemotherapeutic agent is selected from the group consisting of mitoxantrone, doxorubicin, and topotecan.
- 32. (Original) The method according to claim 29 wherein the chemosensitizing reversal agent is selected from the group consisting of fumitremorgin A, fumitremorgin B and fumitremorgin C.
- 33. (Original) The method according to claim 32 wherein the chemosensitizing reversal agent is administered prior to, concurrently with, or after administration of the chemotherapeutic agent.

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34-38. (Canceled)

39. (Original) The method of inhibiting efflux of a chemotherapeutic agent in a mammal in need thereof which comprises administration of an effective amount of a chemosensitizing reversal agent and a chemotherapeutic agent to which the cancer is resistant.

- 40. (Original) The method according to claim 39 wherein the chemotherapeutic agent used is one to which the cancer cells show resistance to the BCRP or other non P-gp/MRP-mediated phenotype.
- 41. (Original) The method according to claim 39 wherein the chemotherapeutic agent is selected from the group consisting of mitoxantrone, doxorubicin, and topotecan.
- 42. (Original) The method according to claim 39 wherein the chemosensitizing reversal agent is selected from the group consisting of fumitremorgin A, fumitremorgin B and fumitremorgin C.
- 43. (Original) The method according to claim 42 wherein the chemosensitizing reversal agent is administered prior to, concurrently with, or after administration of the chemotherapeutic agent.

44-54. (Canceled)

55. (Previously Presented) The method according to claim 2 wherein the chemosensitizing reversal agent is selected from a compound having the Formula (I)

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wherein:

n is an integer of 0, 1, or 2;

R¹ is hydrogen or alkoxy of 1 to 10 carbon atoms;

R² is hydrogen or alkenyl of 2 to 10 carbon atoms;

R³ is hydrogen, alkyl of 1 to 10 carbon atoms, alkenyl of 2 to 10 carbon atoms,

R⁷NH(CH2)v- or

m is an integer of 1 to 6;

v is an integer of 1 to 4;

 R^4 , R^5 and R^6 are hydrogen;

$$R^7$$
 is H or

R⁸ is selected from alkyl of 1 to 10 carbon atoms, -(CH₂)_mCO₂H,

$$-$$
O $-$ CH $_2$ and $-$ (CH $_2$)_m

or a pharmaceutically acceptable salt thereof.

56. (Previously Presented) The method according to claim 8 wherein the chemosensitizing reversal agent is selected from a compound having the Formula (I)

$$R^{1} \xrightarrow{\underset{R^{2}}{\bigvee}} \xrightarrow{\underset{R^{3}}{\bigvee}} \xrightarrow{\underset{R^{6}}{\bigvee}} \xrightarrow{\underset{R^{6}}{\bigvee}$$

wherein:

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n is an integer of 0, 1, or 2;

R¹ is hydrogen or alkoxy of 1 to 10 carbon atoms;

R² is hydrogen or alkenyl of 2 to 10 carbon atoms;

R³ is hydrogen, alkyl of 1 to 10 carbon atoms, alkenyl of 2 to 10 carbon atoms,

 $R^7NH(CH2)v-or$

m is an integer of 1 to 6;

v is an integer of 1 to 4;

 R^4 , R^5 and R^6 are hydrogen;

 R^7 is H or



R⁸ is selected from alkyl of 1 to 10 carbon atoms, -(CH₂)_mCO₂H,

$$--$$
O $-$ CH₂ $-$ (CH₂)_m $-$ (CH₂)_m $-$

or a pharmaceutically acceptable salt thereof.

57-59. (Canceled)

60. (Previously Presented) A method according to claim 29 wherein the chemosensitizing reversal agent is selected from a compound having the Formula (I)

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$$R^{1} \xrightarrow{\underset{R^{2}}{\bigvee}} \xrightarrow{\underset{R^{3}}{\bigvee}} \xrightarrow{\underset{O}{\bigvee}} \xrightarrow{\underset{R^{6}}{\bigvee}} \xrightarrow{\underset{N}{\bigvee}} \xrightarrow{N} \xrightarrow{\underset{N}{\bigvee}} \xrightarrow{N} \xrightarrow{\underset{N}{\bigvee}} \xrightarrow{N} \xrightarrow{N} \xrightarrow{\underset{N}{\bigvee}} \xrightarrow{\underset{N}{\bigvee}} \xrightarrow{\underset{N}{\bigvee}} \xrightarrow{\underset{N}{\bigvee}} \xrightarrow{N} \xrightarrow{N} \xrightarrow{N}$$

wherein:

n is an integer of 0, 1, or 2;

R¹ is hydrogen or alkoxy of 1 to 10 carbon atoms;

R² is hydrogen or alkenyl of 2 to 10 carbon atoms;

R³ is hydrogen, alkyl of 1 to 10 carbon atoms, alkenyl of 2 to 10 carbon atoms,

R⁷NH(CH2)v- or

m is an integer of 1 to 6;

v is an integer of 1 to 4;

 R^4 , R^5 and R^6 are hydrogen;

 R^7 is H or

 R^8 is selected from alkyl of 1 to 10 carbon atoms, -(CH₂)_mCO₂H,

$$--$$
O $-$ CH₂ $-$ (CH₂)_m $-$ (CH₂)_m $-$

or a pharmaceutically acceptable salt thereof.

61. (Canceled)

62. (Previously Presented) A method according to claim 39 wherein the chemosensitizing

reversal agent is selected from a compound having the Formula (I)

$$R^{1} \xrightarrow{N} R^{2} \xrightarrow{R^{3}} \overset{O}{\underset{R}{\circ}} R^{6}$$
(I)

wherein:

n is an integer of 0, 1, or 2;

R¹ is hydrogen or alkoxy of 1 to 10 carbon atoms;

R² is hydrogen or alkenyl of 2 to 10 carbon atoms;

R³ is hydrogen, alkyl of 1 to 10 carbon atoms, alkenyl of 2 to 10 carbon atoms,

R⁷NH(CH2)v- or

m is an integer of 1 to 6;

v is an integer of 1 to 4;

R⁴, R⁵ and R⁶ are hydrogen;

$$\mathbb{R}^7$$
 is H or \mathbb{Q}

ţ

R⁸ is selected from alkyl of 1 to 10 carbon atoms, -(CH₂)_mCO₂H,

$$--$$
O $-$ CH $_2$ $-$ and $-$ (CH $_2$) $_m$ $-$

or a pharmaceutically acceptable salt thereof.

63. (Canceled)